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Institute for Metallic Materials

- Composition converter -

On this page you can calculate the percental composition of compounds starting from atomic- or mass percent and yielding the other one.

(for example for the composition Cu92.5wt-% Ag7.5wt-%)

Cu	20.00	Sn	70.00	O	10.00			atomic to mass percent ▼
----	-------	----	-------	---	-------	--	--	--------------------------

Composition (atomic-percent): Cu 20.0000 Sn 70.0000 O 10.0000

Composition (mass-percent): Cu 13.0495 Sn 85.3077 O 1.6428

The program runs on Linux 2.2.19-7.0.1smp. For portable solutions and ports to other systems, or if you run into trouble please contact [jens](#)

last modified 4th of february 2002

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

Cu	80.00	Sn	10.00	O	10.00			atomic to mass percent ▼
----	-------	----	-------	---	-------	--	--	--------------------------

Composition (atomic-percent): Cu 80.0000 Sn 10.0000 O 10.0000

Composition (mass-percent): Cu 79.0548 Sn 18.4571 O 2.4880

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Cu	29.70	Sn	70.00	O	0.30			atomic to mass percent
----	-------	----	-------	---	------	--	--	------------------------

Composition (atomic-percent): Cu 29.7000 Sn 70.0000 O 0.3000

Composition (mass-percent): Cu 18.5023 Sn 81.4506 O 0.0471

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

Cu	80.00	Sn	19.70	O	0.30			atomic to mass percent
----	-------	----	-------	---	------	--	--	------------------------

Composition (atomic-percent): Cu 80.0000 Sn 19.7000 O 0.3000

Composition (mass-percent): Cu 68.4516 Sn 31.4837 O 0.0646

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

Cu	20.00	Sn	30.00	O	50.00			atomic to mass percent ▼
----	-------	----	-------	---	-------	--	--	--------------------------

Composition (atomic-percent): Cu 20.0000 Sn 30.0000 O 50.0000

Composition (mass-percent): Cu 22.5677 Sn 63.2273 O 14.2050

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

Cu	30.00	Sn	20.00	O	50.00			atomic to mass percent
----	-------	----	-------	---	-------	--	--	------------------------

Composition (atomic-percent): Cu 30.0000 Sn 20.0000 O 50.0000

Composition (mass-percent): Cu 37.5261 Sn 46.7270 O 15.7470

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Cu	50.00	Sn	49.70	O	0.30			atomic to mass percent ▼
----	-------	----	-------	---	------	--	--	--------------------------

Composition (atomic-percent): Cu 50.0000 Sn 49.7000 O 0.3000

Composition (mass-percent): Cu 34.9885 Sn 64.9587 O 0.0529

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

Cu	40.00	Sn	35.00	O	25.00			atomic to mass percent
----	-------	----	-------	---	-------	--	--	------------------------

Composition (atomic-percent): Cu 40.0000 Sn 35.0000 O 25.0000

Composition (mass-percent): Cu 35.8209 Sn 58.5423 O 5.6368

The program runs on Linux 2.2.19-7.0.1smp. For portable solutions and ports to other systems, or if you run into trouble please contact [jens](#)

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EAST

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6416571").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 15:41

EAST

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4755	(428/469 or 428/908.8 or 24/1). ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:18
L2	348	1 and (copper or cu) and (tin or sn) and oxygen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:18
L3	154	2 and ((copper or cu) and (tin or sn) and oxygen) WITH (coating or coatings or layer or layers or film or films)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:20
L4	1	3 and (plating or electroplate or electroplating) WITH ((copper or cu) and (tin or sn) and oxygen) WITH (alloy or alloys)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:33

EAST

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	38	(plating or electroplate or electroplating) WITH ((copper or cu) and (tin or sn) and oxygen) WITH (alloy or alloys)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:36
L2	33	1 and (coating or coatings or layer or layers or film or films)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:44

EAST

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3868	(428/469).ccis.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/28 16:47